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Apr 19, 1994

DERWENT-ACC-NO: 1994-164463

DERWENT-WEEK: 199420

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TITLE: Acrylonitrile!-based high hygroscopic fibre for clothes - by spinning compsn. contg. collagen into soln. of acrylonitrile! polymer

PATENT-ASSIGNEE:

ASSIGNEE

MITSUBISHI RAYON CO LTD

CODE

MITR

PRIORITY-DATA: 1992JP-0258350 (September 28, 1992)

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PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|--|----------------|----------|-------|------------|
| <input type="checkbox"/> JP 06108307 A | April 19, 1994 | | 004 | D01F006/54 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|--------------------|----------------|------------|
| JP 06108307A | September 28, 1992 | 1992JP-0258350 | |

INT-CL (IPC): C08L 33/18; C08L 89/04; D01F 6/18; D01F 6/38; D01F 6/54; D06M 101/14

ABSTRACTED-PUB-NO: JP 06108307A

BASIC-ABSTRACT:

An acrylonitrile (AN) based high hygroscopic fibre is obtd. by spinning compsn. contg. 5-70 pts.wt. of collagen having less than 10 microns average particle size into soln. having 100 pts.wt. of AN based polymer dissolved in solvent. The AN based high hygroscopic fibre has following properties: official regain at least 3 wt.%; fineness upto 20 d.; tensile strength at least 1 g/d; tensile elongation at least 5%; initial elastic modulus at least 10 g/d.

The AN based polymer may be copolymer with cpd. such as vinyl acetate, vinylidene chloride, acrylamide, methyl methacrylate, acrylic acid, methyl acrylate, vinyl bromide, sodium methacryl sulphonate. The solvent include ordinary solvent for PAN, such as dimethyl acetamide, DMF, DMSO, gamma-butyro lactone, ethylene carbonate, sodium thiocyanic nitrate.

USE/ADVANTAGE - The AN based high hygroscopic fibre is useful for clothes. The AN based high hygroscopic fibre has appropriate fibre property and excellent post process passing through property, and also unique handling touch peculiar to collagen addition, further very good touch feeling.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: POLYACRYLONITRILE BASED HIGH HYGROSCOPIC FIBRE CLOTHING SPIN
COMPOSITION CONTAIN COLLAGEN SOLUTION POLYACRYLONITRILE POLYMER

DERWENT-CLASS: A14 A94 F01

CPI-CODES: A03-C01; A04-D02B; A04-D03B; A07-A01; A11-B15C; A12-S05L; F01-C08; F01-D02; F01-D10; F04-C;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0274U; 0278U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; G0533 G0260 G0022 D01 D12 D10 D51 D53 D58 D61*R D63 D84 F62 Na 1A ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 Polymer Index [1.2] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 Polymer Index [1.3] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; R00360 G0555 G0022 D01 D12 D10 D51 D53 D58 D69 D82 Cl 7A ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 ; P0215 Polymer Index [1.4] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; R00444 G0453 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F70 ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 Polymer Index [1.5] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; R00479 G0384 G0339 G0260 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D85 F41 ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 Polymer Index [1.6] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; R00642 G0340 G0339 G0260 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 Polymer Index [1.7] 017 ; H0022 H0011 ; R00817 G0475 G0260 G0022 D01 D12 D10 D51 D53 D58 D83 F12 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D51 D53 D58 D60 D83 F36 F35 ; S9999 S1070*R ; S9999 S1627 S1605 ; P0088 Polymer Index [1.8] 017 ; ND04 ; ND10 ; B9999 B3407 B3383 B3372 ; N9999 N6962*R ; B9999 B3872 B3838 B3747 ; B9999 B5254 B5243 B4740 ; B9999 B4171 B4091 B3838 B3747 ; B9999 B4080 B3930 B3838 B3747 ; B9999 B3907 B3838 B3747 ; Q9999 Q7056*R Polymer Index [1.9] 017 ; D00 Na 1A C* 4A N* 5A O* 6A S* ; R01084 D01 D11 D10 D50 D84 F70 ; R00278 D01 D11 D10 D50 D83 F70 ; R00274 D01 D11 D10 D50 D82 F63 ; R00644 G2131 D01 D23 D22 D31 D42 D50 D84 F43 ; R00645 G1296 D01 D23 D22 D31 D46 D50 D63 D83 F44 ; A999 A475 Polymer Index [2.1] 017 ; R24034 G3714 P0599 D01 F70 ; S9999 S1070*R ; S9999 S1456*R Polymer Index [2.2] 017 ; ND04 ; ND10 ; B9999 B3407 B3383 B3372 ; N9999 N6962*R ; B9999 B3872 B3838 B3747 ; B9999 B5254 B5243 B4740 ; B9999 B4171 B4091 B3838 B3747 ; B9999 B4080 B3930 B3838 B3747 ; B9999 B3907 B3838 B3747 ; Q9999 Q7056*R Polymer Index [2.3] 017 ; B9999 B5209 B5185 B4740

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0034 0039 0041 0042 0044 0045 0047 0048 0050 0051 0053 0147 0150 0153 0156 0159 0162 0165 0168 0203 0206 0207 0209 0226 0376 0411 0495 0502 0537 0621 0789 0817 0838 1384 1986 2318 2471 2472 2507 2524 2541 2542 2618 2620 2628 2635 2649 2651 2654 2711 3006 3013 3152 3172 3250

Multipunch Codes: 017 02& 034 05- 06- 062 063 066 067 071 072 074 075 076 077 08& 081 082 086 09& 09- 10& 10- 15- 17& 17- 18& 18- 19& 19- 20& 230 27& 273 30& 316 332 398 481 52& 532 533 535 546 551 557 559 560 566 567 573 575 59& 596 619 017 02& 256 30& 393 479 481 52& 532 533 535 551 557 559 560 566 567 573 575 592 593 596 619

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-075563

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